

ABSTRACT

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The invention provides a tire having a carcass ply, an inner elastomeric layer for sealing against inflation gases and an intermediate elastomeric layer between the carcass ply and inner layer, in which the intermediate reinforcement layer is formed from a rubber composition comprising:

(i) a natural or synthetic polyisoprene having a majority of chains with cis-1,4 bonds and a copolymer prepared in solution of one or more conjugated diene monomers and one or more vinyl aromatic monomers, said copolymer simultaneously satisfying the following relationships:

- (1) $D \geq 60 - 1.75 \cdot VA$
- (2) $D \leq 116 - 1.64 \cdot VA$
- (3) $D > 10$
- (4) $VA > 10$,

wherein D is the amount of diene chains having a 1, 2 bond content (in %) and VA is the amount of vinyl aromatic chains (in %), and

(ii) carbon black, in an amount of 25 to 85 parts by weight per hundred parts of said elastomer (phr),

wherein said carbon black has values of DBP oil absorption (in ml/100 g) and of BET specific surface area (in m^2/g) which fulfil the following relationship:

$$DBP \leq -0.88 \cdot BET + 190.$$